

All Sensors Corporation

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D4 Package Available for Basic Low Pressure, Compact Sensor (BLC/BLCR Series)

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All Sensors Corporation of Morgan Hill, California has announced the availability of the new D4 package, a 16-pin SOIC sensor package for their compact low pressure sensor, the **BLC and BLCR Series**. This brand new, low cost 16-pin package will be beneficial for small devices seen in the medical, industrial and HVAC industries.

These product series offer design engineers excellent performance over pressure ranges of ± 1 inH₂O through ± 30 inH₂O and 15 PSIA. The BLC and BLCR Series are based on All Sensors' CoBeam²™ Technology. The devices provide a high output signal at a low operating voltage maintaining comparable output levels to traditional equivalent basic sensing elements. This lower supply voltage gives rise to improved warm-up shift while the CoBeam²™ Technology itself reduces package stress susceptibility, resulting in improved overall long term stability. The technology also vastly improves position sensitivity compared to conventional single die devices.

These series are intended for use with non-corrosive, non-ionic working fluids such as air, dry gases and the like. The compact size of this series will provide excellent opportunities for small mobile devices and are ideal for battery applications. The basic output is also ratiometric to the supply voltage and is operable from 0.9 to 1.8 volts DC for **BLC** devices and 1.8 to 3.3volts DC for **BLCR** devices. The D4 package is available in 1, 5, 10, 20, 30 inH₂O (250, 1.25k, 2.5k, 5k, 7.5k Pa) differential calibration. Gage pressure ranges are also available in U1,U2 packages and 15 psi (103k Pa) absolute in U4 package.

D4 Package Features

- Small, compact package dimensions
- PC board mountable in SMT
- Barbed Ports

Product and Electrical Features

- uPower low supply voltage (0.9V to 1.8V— BLC) / (1.8 to 3.3V—**BLCR**)
- Ratiometric basic output
- 0.1% linearity typical
- Improved front to back linearity
- Intrinsically no position sensitivity
- Improved warm-up shift distribution
- Parylene coating available, contact factory for applicability.
- Operating temperature range: -25°C to 85°C

Applications

Ideal applications for these devices are: medical devices, medical instrumentation, environmental controls, HVAC, portable/hand held devices and all ultra low pressure applications

Price

Contact factory for price. Samples are available for product testing

For additional information, please visit:

<https://www.allsensors.com/products/blc-series>
<https://www.allsensors.com/products/blcr-series>

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